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Cooperative Economic Insect Report

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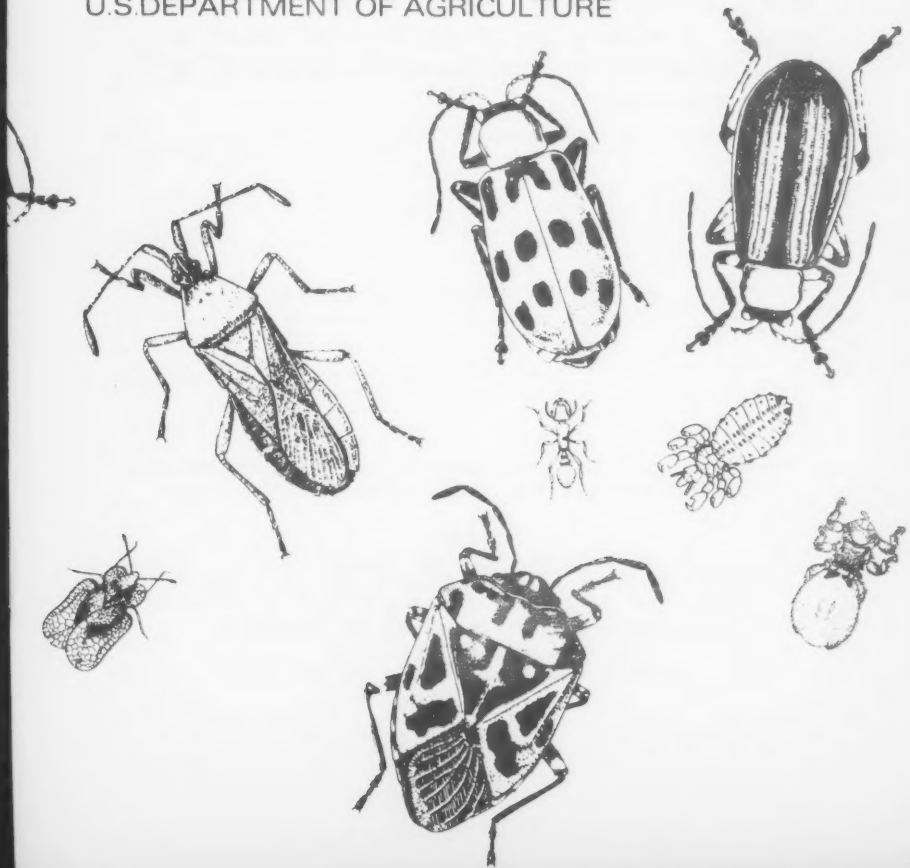

ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
NEW PEST DETECTION AND SURVEY STAFF

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Service serves as a clearing house and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

CORN EARWORM heavy on soybeans in Oklahoma, economic on grain sorghum in parts of Kansas and Alabama. (p. 767).

SOUTHWESTERN CORN BORER damaged corn in Oklahoma, Alabama, and Kentucky. (pp. 767-768).

FALL ARMYWORM damaged corn and sorghum in North Carolina and Virginia. (p. 768).

VELVETBEAN CATERPILLAR still serious on soybeans in Florida and Alabama. (p. 769).

BOLL WEEVIL heavy in Texas, Oklahoma, Alabama, Tennessee, and South Carolina. (p. 769).

Detection

New State records include PAVEMENT ANT in Utah (p. 772) and a BRACONID WASP in New Mexico (p. 773). First record of GYPSY MOTH males in Arkansas. (p. 773).

For new county records, see page 774.

Reports in this issue are for the week ending September 12 unless otherwise indicated.

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WEATHER OF THE WEEK ENDING SEPTEMBER 14

Reprinted from Weekly Weather and Crop Bulletin Supplied by National Weather Service, NOAA.

HIGHLIGHTS: Cold air moved into north-central United States on Friday leaving record lows and some frost in its path as it headed towards the Atlantic. Unseasonable cool air blanketed the eastern two-thirds of the Nation over the weekend. Weekly temperatures in the Great Lakes region averaged as much as 10 degrees below normal for mid-September. In contrast, above normal temperatures warmed the Pacific Northwest and the West Coast States. At midweek, severe weather and heavy rains erupted in the Midwest and South

PRECIPITATION AND TEMPERATURE: Slow moving frontal systems across the Nation on Monday spelled little change fron the weekend weather pattern. A morning weather check showed mostly fair conditions and cool temperatures and limited precipitation around the Nation except in the Southwest where cloudy skies and scattered thundershowers continued. In the afternoon, thundershowers lined the gulf and south Atlantic coasts. Severe weather broke out in parts of Florida, winds gusted to 80 m.p.h. in Ocala and toppled powerlines and trees near Tallahassee. A few thundershowers developed from northern New England into Pennsylvania and across parts of Illinois and Iowa, but mostly clear skies dominated the middle Atlantic States and the northwest quarter of the Nation. Monday's high pressure system over Lake Superior marked the center of a cool air mass that hovered over the north-central United States. High temperatures in the Upper Mississippi Valley and western Great Lakes areas scored only in the 50's and 60's and even stopped at 47 degrees in Marquette, Michigan. Temperatures elsewhere east of the Rockies ranged from the 70's in the north to the 80's and the 90's in the south. Cold morning air on Tuesday broke record lows in the Great Lakes region and delivered light to killing frosts to parts of southern Michigan. By noon, area temperatures moved into the 50's. Southwest Arizona reigned as the warmest spot in the Nation, Yuma--80 degrees.

Weather of the week continued on page 776.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

CORN EARWORM (Heliothis zea) - TEXAS - Moderate on sorghum in San Angelo area. (McWhorter). OKLAHOMA - Heavy in soybean field in Wagoner County. Averaged one per 10 grain sorghum heads in Payne County. (Okla. Coop. Sur.). KANSAS - Economic on heads of grain sorghum in Labette County field; larvae 0-7 (averaged 2) per head on 80 percent of heads. Other averages per sorghum head by county: Montgomery 0.75, Neosho 1.0, Osage 1.5, Stafford 1.1, and Harvey 1.1. (Bell). ALABAMA - Full-grown H. zea larvae, 2-6 per grain sorghum head, destroyed 42-acre field in De Kalb County. Destroyed 50-60 percent of 30-acre grain sorghum field in Macon County. Larvae of this species and H. virescens (tobacco budworm) 2-24 per 6 row feet in late-planted 30-acre soybean field. Destroyed 85 percent of beans on one-third or more of area. Larvae trace in several thousand other acres in county. Light to moderate in several thousand acres in Monroe, Macon, Bullock, and Russell Counties; treatments applied in some fields. (Wood et al.).

TENNESSEE - H. zea caused heavy whorl damage to late corn in one field each in Coffee and Franklin Counties week ending September 5. (Cagle). NORTH CAROLINA - Dropped below economic threshold in 10 soybean fields in Wilson, Johnston, and Edgecombe Counties. Moth activity increased after recent decline. Late-planted soybeans may be affected by this last generation. (Fleming, Hunt). VIRGINIA - Larvae averaged 10.3 per 30 row feet in 815 acres (22 fields) in Charles City County; reached treatment levels in 57-acre field. Larvae averaged 12.4 per 30 row feet in 1,154 acres (55 fields) in Westmoreland County; 98 acres (3 fields) need treatment. Larvae averaged 3.1 per row foot in James City County; no treatments needed. (Allen). WISCONSIN - Flights still moderate to heavy at most sites. Cool temperatures reduced blacklight trap catches some nights. All larval instars in almost every field of sweet corn. Controls seem adequate. (Wis. Ins. Sur.).

GREENBUG (Schizaphis graminum) - TEXAS - Heavy in San Angelo area. Decreased on sorghum in Motley County. (McWhorter, Boring).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - Up to 50 per 25 sweeps near Belen, Valencia County, week ending September 5. Currently ranged 15-100 per 25 sweeps of alfalfa in Bernalillo County. (N.M. Coop. Rpt.). KANSAS - Averaged 25 per sweep of 10-inch alfalfa in Cowley County. (Bell).

CORN, SORGHUM, SUGARCANE

EUROPEAN CORN BORER (Ostrinia nubilalis) - ALABAMA - Fully grown larvae in 30 percent of all grain sorghum stalks in 42-acre De Kalb County field. (Wood et al.). NORTH CAROLINA - Lodging heavy in corn, heaviest (30 percent) in southern Coastal Plain counties. (Hunt, Bowers). SOUTH DAKOTA - Second-generation damage heavy in Clay, Union, Lincoln, and Turner Counties. Several fields with up to 30 percent broken stalks. Ear droppage slight to date. (Walgenbach).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - OKLAHOMA - Infested 5-100 (averaged 58) percent of cornstalks in 14 fields in Beaver, Texas, and Cimarron Counties. Girdled (0-19 percent) and lodged stalks (0-7 percent) still fairly light in most fields;

significant increase expected next 14-21 days. (Okla. Coop. Sur.). KANSAS - About 95 percent of third-generation Diatraea grandiosella eggs parasitized on corn in milk stage in Stafford County; second-generation larvae girdled 4 percent of stalks by September 9. Girdled average of 16 percent of stalks in mature cornfield; lodging about 7 percent. (Bell). ALABAMA - Larvae damaged 80 and 30 percent of corn in 2 separate 35-acre fields in De Kalb County. Damaged many stalks in Calhoun and Marshall Counties. First stalk girdling in State September 9 in Marshall County with summer form of larvae resting in tap roots and stalk down. (Miller et al.). KENTUCKY - Late-planted corn damage significant in Warren County. (Barnett, Driskill).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - Subsiding on treated sorghum. Larvae economic in half of fields on 500 acres, but sorghum outgrew damage in Levy County. (Fla. Coop. Sur.). NORTH CAROLINA - Late instars continued severe on corn and sorghum over entire eastern area. Damage severe to 25 acres of late sorghum in Wake County and about 70 acres in Franklin and Halifax Counties. Field infestations (more than one larva per plant) up to 50 percent in 4 of 6 infested fields in Halifax County. (Fleming et al.). VIRGINIA - Corn damage serious in Piedmont area for past month. Damage heavy in Amelia, Campbell, Charlotte, Powhatan, Southampton, and Rockingham Counties. Counts heaviest on corn planted late for silage and on alfalfa. Larvae 8-10 per cornstalk on 40 acres of corn. (Allen).

CORN ROOTWORMS (Diabrotica spp.) - WISCONSIN - Adult averages per plant by district: Northwest 1.7, north-central 1.2, northeast 0.2, west-central 2.9, central 0.9, east-central 1.1, southwest 1.5, south-central 0.7, and southeast one. Probably heavier than survey indicated. (Wis. Ins. Sur.).

SORGHUM MIDGE (Contarinia sorghicola) - TEXAS - Still found in late-planted sorghum throughout Rolling Plains area. Heavy in San Angelo area. Emergence light in High Plains. (Boring et al.). OKLAHOMA - Light in late-blooming sorghum in Jackson and Tillman Counties. Heavy in scattered late heads in Payne County field. (Okla. Coop. Sur.).

FORAGE LEGUMES

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - Larvae up to 25, adults 8-25, per 25 sweeps of forage legumes near Belen, Valencia County, week ending September 5. Currently larvae 3-75, adults 4-5, per 25 sweeps of alfalfa near Albuquerque, Bernalillo County. Damage heavy. (N.M. Coop. Rpt.).

SOYBEANS

MEXICAN BEAN BEETLE (Epilachna varivestis) - ALABAMA - Adults emerged in two 25-acre soybean fields at 90 per 6 feet of row in Marshall County. Larvae and other leaf feeders destroyed 75-90 percent of foliage. Several thousand acres treated in northeast counties. Larvae and adults leaf feeding in several thousand acres in Dallas, Escambia, and Monroe Counties. (Wood et al.). TENNESSEE - Moderate on soybeans in Franklin, Lincoln, Coffee, and Bedford Counties week ending September 5. Currently damaged Lake County soybeans. About 1,000 acres damaged in Franklin and Lincoln Counties; 4,000 acres treated. Adults 0-25 per linear foot in

central area. (Miller et al.). VIRGINIA - Mexican bean beetle averaged 21.9 per 30 row feet in 1,154 acres (55 fields) in Westmoreland County. Defoliation averaged 6.7 percent; 65 acres (5.6 percent) treated. Beetles averaged 0.2 per 30 row feet in 815 acres (22 fields) in Charles City County; defoliation about 4.4 percent. Averaged 8.6 per 30 row feet in 90 acres (36 fields). Defoliation 2.9 percent. (Allen).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - Still economic, treatments needed in Levy and western Alachua Counties. Stripped a neglected 50-acre field in western Alachua County. Decreased at Quincy, Gadsden County. (Fla. Coop. Sur.). ALABAMA - Third-generation larvae appeared in southern counties. Excessive leaf feeding in several thousand acres in southern and central areas. Larvae and adults in Marshall and De Kalb Counties. Expected to continue as serious pest to late plantings in southern and central areas. (Henderson et al.).

SOUTHERN GREEN STINK BUG (Nezara viridula) - FLORIDA - Very heavy on untreated soybeans at experiment station in Quincy, Gadsden County. Ranged 3-6 per foot of row in 3 acres. (Fla. Coop. Sur.). ALABAMA - Nymphs and adults 1-2 per 100 feet of row in several soybean fields in Marshall and Macon Counties. Collected in Marshall County September 9, 1975, by F. Wood. Determined by H.F. McQueen. This is a new county record. (Wood et al.).

SOYBEAN CYST NEMATODE (Heterodera glycines) - TENNESSEE - Infested soybean field in northeast corner of Bedford County September 3, 1975. Collected by J.L. Cagle. Determined by R.E. Harrison. This is a new county record. (Gordon, Bruer).

PEANUTS

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - TEXAS - Very heavy on dryland peanuts in Comanche County. (Hoelscher).

COTTON

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Moderate to heavy on cotton in San Angelo area. Heavy throughout much of Rolling Plains. (McWhorter, Boring). OKLAHOMA - Punctured squares ranged 5-15 percent, up to 50 percent in some fields, in southwest counties. Counts up to 100 percent in Caddo and Washita Counties. (Okla. Coop. Sur.). LOUISIANA - Heaviest on cotton in several years for some northeast areas week of September 5. (Tynes). ALABAMA - "Hatch-out" still heavy statewide. Many adults entered hibernation as others continued square and boll feeding and egg laying. Excessive feeding and egg laying on bolls 0.50-0.75 grown. (McQueen). TENNESSEE - Adults heavy and boll damage light to moderate in many central area fields. Most cotton in area cut out. Continued serious damage to rank fields. Small boll injury evident in western area. Controls discontinued to prevent damage to opening lower bolls. (Locke). SOUTH CAROLINA - This species and Heliothis spp. (bollworms) heavy in fields with young bolls; treatments applied. (Sparks).

BOLLWORMS (Heliothis spp.) - ALABAMA - Larvae excessive and heavy, one or more per stalk, in some cotton fields in Elmore, Russell, and other isolated fields in many counties. (Smith et al.). OKLAHOMA - Eggs 2-6 and larvae 0-4 per 100 terminals in southwestern counties. Square damage 5-12 percent; up to 18 percent in few fields. Larvae 20-30 per 100 terminals in Washita and Caddo Counties. (Okla. Coop. Sur.). TEXAS - H. zea (bollworm) infestations decreased in Rolling Plains area. Damage heavier, up to 10 percent square damage in Clay and Wilbarger Counties. (Rummel, Boring). LOUISIANA - H. virescens (tobacco budworm) and H. zea continued egg laying in many cotton fields week of September 5; larvae heavy. Eggs and larvae heaviest in Red River Valley. (Tynes). TENNESSEE - Heliothis spp. continued to damage all size, except opening, bolls in western area. All larval stages present. Infestations usually confined to rank cotton. (Locke).

CABBAGE LOOPER (Trichoplusia ni) - OKLAHOMA - Heavy in many cotton fields in Jackson County with 30-40 percent foliage loss common. Some diseased larvae found. (Okla. Coop. Sur.). ALABAMA - Larvae in many cotton fields in Colbert, Cullman, and other northern counties. (Jarrett et al.).

POTATOES, TOMATOES, PEPPERS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - OKLAHOMA - Heavy damage to fall potatoes at Perkins, Payne County. (Okla. Coop. Sur.).

EUROPEAN CORN BORER (Ostrinia nubilalis) - DELAWARE - Average infestations in untreated sweet peppers ranged 40-50 percent in western Sussex County. (Burbutis).

CUCURBITS

SQUASH BUG (Anasa tristis) - OKLAHOMA - All stages heavy on squash and watermelons at Perkins, Payne County. (Okla. Coop. Sur.).

NATIONAL WEATHER SERVICE 30-DAY OUTLOOK
MID-SEPTEMBER TO MID-OCTOBER 1975

The National Weather Service's 30-day outlook for mid-September to mid-October is for temperatures to average below seasonal normals over the western half of the Nation except for near normal along the Pacific coast and in the southern Great Plains. Above normal temperatures are indicated from the Ohio Valley and the middle Atlantic coast southward to the gulf coast. In unspecified areas near normal temperatures are in prospect. Precipitation is expected to exceed the median amount over most of the Great Plains, the Mississippi Valley, and the Great Lakes, as well as the north Pacific coast and eastern portions of the central Plateau. Elsewhere, less than the median value is indicated.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the National Weather Service. You can subscribe through the Superintendent of Documents, Washington, D.C. 20250. Price $5.00 a year.

DECIDUOUS FRUITS AND NUTS

PEARSLUG (Caliroa cerasi) - UTAH - Especially severe in Juab County pear and plum orchards. (Jones).

PECAN WEEVIL (Curculio caryae) - TEXAS - Egg laying in pecans continued in parts of Knox and Wichita Counties. Light to moderate throughout San Angelo area. (Boring, McWhorter). OKLAHOMA - Moderate on Comanche County pecans. Very few adults emerged in Love County. (Okla. Coop. Sur.).

WALNUT HUSK FLY (Rhagoletis completa) - CALIFORNIA - More than usual dooryard walnuts infested with larvae in husks. Nuts dropped in some cases. (Cal. Coop. Rpt.). OREGON - Increased at Dundee, Yamhill County, due to unusually warm temperatures September 1-14. Some third sprays applied. (Larson).

ORNAMENTALS

EUONYMUS SCALE (Unaspis euonymi) - OHIO - Heavy in northeastern counties on Euonymus fortunei, Pachysandra, and Boston ivy. Some death of vines noted. (Balderston, Purrington).

FOREST AND SHADE TREES

SPRUCE BUDWORM (Choristoneura fumiferana) - NEW MEXICO - Damage heavy at Osha Park in Cibola National Forest week ending September 5. Defoliated spruce and Douglas-fir over about 100 acres in Torrance County. (N.M. Coop. Rpt.).

PINE TORTOISE SCALE (Toumeyella numismaticum) - KANSAS - Heavy infestations damaged Scotch pines in Wyandotte County nursery. (Bell).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - OREGON - Flight activity of second-generation adults increased past 14 days due to warm weather. Flying to attractant traps at La Grande, Union County, and Nyssa and Ontario, Malheur County. Adults noted as follows past 14 days: Portland, Multnomah County, 488 (one trap); La Grande (2 traps) and Union (one trap), Union County, 2,342 and 25, respectively; Baker, Baker County, 303 (2 traps); Ontario, Malheur County, 441 (one trap). (Penrose). MINNESOTA - Second generation emerged in Minneapolis, Hennepin County, and St. Paul, Ramsey County. Dead elm trees and elm logs heavily infested with larvae, pupae, and emerging adults. (Minn. Pest Rpt.).

ELM LEAF BEETLE (Pyrrhalta luteola) - TEXAS - Heavy in San Angelo area. (McWhorter). UTAH - Least damage in 5 years to elms at Kanab, Kane County. Severe defoliation in some Juab County areas. (Matthews, Jones).

YELLOWNECKED CATERPILLAR (Datana ministra) - OKLAHOMA - Larvae heavy on oaks in some areas of Wagoner, Muskogee, and Payne Counties. (Okla. Coop. Sur.).

A LACE BUG (Corythucha ulmi) - MINNESOTA - Heavy on elms; discoloration extensive. Increased due to recent drought. (Minn. Pest. Rpt.).

MAN AND ANIMALS

SCREWWORM (Cochliomyia hominivorax) - Total of 848 cases reported from continental U.S. August 24-30 as follows: Texas 790, New Mexico 21, Arizona 37. Total of 901 cases confirmed in portion of Barrier Zone in Republic of Mexico. Total of 245 cases reported in Mexico south of Barrier Zone. Number of sterile flies released this period totaled 193,461,600 as follows: Texas 163,869,600; New Mexico 6,733,800; Arizona 22,858,200. Total of 2,000,000 flies released south of Barrier, none released within Barrier. (Vet. Serv.).

FACE FLY (Musca autumnalis) - OKLAHOMA - Averaged 20 per head on Noble County cattle. (Okla. Coop. Sur.). TENNESSEE - Continued to cause problems in many areas week ending September 5, although populations decreased in August in most areas. Noted on Humphreys County cattle August 20, 1975. Collected and determined by J.B. Bogard. Adults 2-8 per head on Cheatham County cattle September 2. Collected and determined by C.D. Gordon. These are new county records. (Gordon, Bruer).

HORN FLY (Haematobia irritans) - TEXAS - Moderate to heavy in San Angelo area. (McWhorter). OKLAHOMA - Ranged 200-275 per head on Payne County cattle. Moderate to heavy in Comanche County. (Okla. Coop. Sur.).

MOSQUITOES - ALABAMA - Larvae and adults of Culex pipiens quinquefasciatus and others heavy statewide. Eight confirmed cases of St. Louis encephalomyelitis. (Wolf et al.). OHIO - Four cases of St. Louis encephalomyelitis confirmed in State to date; no significant light trap increases of Culex pipiens although more cases of this disease noted since 1962. Aedes vexans emergence heavy due to recent rains. (Ohio Dept. Health). MINNESOTA - Aedes vexans predominant in trap and bite collections. Culex tarsalis predominant in larval collections, but larvae relatively light. Light trap catches increased, total of 3,240 females taken in 15 traps. (Minn. Pest Rpt.).

A BIBIONID FLY (Plecia nearctica) - FLORIDA - Second brood earlier than usual, became common in late August; now generally declining. Heaviest near Jupiter area, Palm Beach County. (Fla. Coop. Sur.).

LONE STAR TICK (Amblyomma americanum) - KENTUCKY - Heavier than usual populations caused concern in Warren County. (Barnett, Driskill).

WESTERN BLACK WIDOW SPIDER (Latrodectus hesperus) - NEVADA - Found in increasing numbers in warehouses in southeast Reno, Washoe County. (Nev. Coop. Rpt.).

HOUSEHOLDS AND STRUCTURES

PAVEMENT ANT (Tetramorium caespitum) - UTAH - Collected in home at Salt Lake City, Salt Lake County, by T. Knighton April 5, 1975. Determined by G.C. Wheeler. This is a new State record. (Knowlton).

BENEFICIAL INSECTS

GYPSY MOTH PARASITES - WEST VIRGINIA - These parasites of Porthetria dispar (gypsy moth) released since last report (CEIR 25(31):648) in effort to establish on native hosts. Total released since then by county: Hampshire - Brachymeria intermedia (a chalcid wasp) 18,000, Pimpla sp. (an ichneumonid wasp) 200, Apanteles liparidis (a braconid wasp) 500, Meteorus pulchricornis (a braconid wasp) 200, and Palexorista inconspicua (a tachinid fly) 215; Hardy - B. intermedia 12,500, A. porthetriae 250, and P. inconspicua 195; Pendleton - B. intermedia 10,100. (Coffman).

A BRACONID WASP (Agathis acrobasidis) - NEW MEXICO - Emerged from pecan nutlets infested by Acrobasis nuxivorella (pecan nut casebearer). Collected in Eddy County by R. Granado and W. Iselin July 17, 1975. Determined by C.W.F. Muesebeck. This is a new State record. (N.M. Coop. Rpt.).

AN EVANIID WASP (Evania appendigaster) - NEW MEXICO - Collected at residence at Alamogordo, Otero County, by W. Bloyce September 1, 1975. Determined by W. Iselin. This is a new county record. This parasite of cockroach eggs widening its distribution. (N.M. Coop. Rpt.).

A PUNCTUREVINE SEED WEEVIL (Microlarinus lareynii) - OKLAHOMA - Light on puncturevine 9 miles south of Keyes, Cimarron County, September 10, 1975. Collected and determined by D.C. Arnold. This is a new county record. (Okla. Coop. Sur.).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GRASSHOPPERS - TEXAS - Still problem on rangeland throughout Rolling Plains. (Boring). UTAH - Very numerous in some local areas of Weber County and several range areas in Juab County. Very abundant in some Weber County alfalfa and gardens. Damaged some gardens in Juab County. (Rogers, Jones). KANSAS - Averaged 6-7 per square yard along sorghum field border in Lyon County. Averaged 15 per square yard along soybean field border in Bourbon County; foliar damage heavy. (Bell).

GYPSY MOTH (Porthetria dispar) - ARKANSAS - Two male moths trapped at campground near Morrilton, Conway County, by Loftin (initials unknown) August 21, 1975. First find for State. WISCONSIN - Male moth trapped on oak at Elkhart Lake, Sheboygan County, by R. Jakubek September 2, 1975. First find for county. MICHIGAN - Male moth trapped on farm in Hagar Township, Berrien County, by M. Hanna August 8, 1975. First find for county. All determined by E.L. Todd. (PPQ).

JAPANESE BEETLE (Popillia japonica) - ALABAMA - Female trapped at Union Church, Randolph County, by B.E. Blair August 1, 1975. Adult collected from fig tree at Lockhart, Covington County, by P.P. Johnson August 4. GEORGIA - Female trapped near pasture 4 miles south of Interstate Highway I-20 at intersection of State Highway 83 and State Road S2155 in Morgan County by S.R. Whitworth July 23, 1975. All determined by R.D. Gordon. These are new county records. (PPQ).

RED IMPORTED FIRE ANT (Solenopsis invicta) - TEXAS - Several mounds found; adults collected at roadside in Milam County by B.J. Jones August 5, 1975. This is a new county record. ALABAMA - Twelve adults collected on farm in Marshall County by W.L. Martin August 13, 1975. S. saevissima richteri has been recorded for Marshall County; first determination of S. invicta for county. Determined for both States by D.R. Smith. (PPQ).

HAWAII INSECT REPORT

Fruits and Ornamentals - COCONUT LEAFROLLER (Hedylepta blackburni) heavily damaged nearly all coconut leaves at Kalihi, Oahu. (Teramoto). Four pupae of BANANA SKIPPER (Erionota thrax) collected at Hana, Maui, in mid-August. First report of infestation in eastern Maui. Damage not noticeable in nearby plantings. (Ah Sam, Yoshioka).

Beneficial Insects - Heavy galling by a TEPHRITID FLY (Procecidochares alani) observed at Kolekole, Onomea, and Panaewa, Hawaii Island. Galls collected for fly emergence and redistribution. Significant emergence of Habrocytes sp. (a pteromalid wasp) from field collected galls noted during past few months. (Matayoshi).

DETECTION

New State Records - A BRACONID WASP (Agathis acrobasidis) - NEW MEXICO - Eddy County. (p. 773). PAVEMENT ANT (Tetramorium caespitum) - UTAH - Salt Lake County. (p. 772).

New County Records - AN EVANIID WASP (Evania appendigaster) NEW MEXICO - Otero (p. 773). FACE FLY (Musca autumnalis) TENNESSEE - Cheatham, Humphreys (p. 772). JAPANESE BEETLE (Popillia japonica) ALABAMA - Covington, Randolph; GEORGIA - Morgan (p. 773). A PUNCTUREVINE SEED WEEVIL (Microlarinus lareynii) OKLAHOMA - Cimarron (p. 773). RED IMPORTED FIRE ANT (Solenopsis invicta) TEXAS - Milam (p. 774). SOUTHERN GREEN STINK BUG (Nezara viridula) ALABAMA - Marshall (p. 769). SOYBEAN CYST NEMATODE (Heterodera glycines) TENNESSEE - Bedford (p. 769).

CORRECTIONS

CEIR 25(36):744 - WALNUT CATERPILLAR (Datana integerrima) for MISSOURI should be FALL WEBWORM (Hyphantria cunea)

CEIR 25(36):747 - PINK BOLLWORM (Pectinophora gosspyiella) should read PINK BOLLWORM (Pectinophora gossypiella)

LIGHT TRAP COLLECTIONS

	Temperature °F.	Precipitation (inches)	Type of trap (BL - Blacklight, I - incandescent, MV - mercury vapor, O - other)	Agrotis ipsilon (black cutworm)	Ellopia gerea (Geometrid caterpillar)	Renia salusalis (army cutworm)	Paroma diffusa (weevil head sprayers)	Peridroma saucia (variegated cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellow-striped armyworm)	Trichoplusia ni (cabbage looper)	Crops
FLORIDA																							
Gainesville 9/5-11			BL					9	1	5								6	2	30	5		
KANSAS																							
Tribune 8/28, 9/2, 5, 9/9			BL	6		2	151			612							8	17			35		
MISSISSIPPI																							
Stoneville 9/5-11	62-95	2.18	2BL	24	35			65	971	225			2				1	52	232	294	50	3726	
NEW JERSEY																							
Seabrook 9/3-9			BL	17						20			9			19		44		27		3	
Vineland 9/3-9			BL	14						57		19	4			16		39		24		3	
OHIO																							
Wooster 9/6-12			BL	6			2			15						23	43	62		225	24	4	
PENNSYLVANIA (Districts)																							
Central 9/3-10			6BL	1						5	1					4		13		19	1		
South East 9/3-10			9BL															18			10		
VIRGINIA																							
Blacksburg 9/5-11			BL	34						27			2	10		1	22	63		192	2		
WISCONSIN																							
Lancaster 9/4-10			BL							7						5	6	11		10			
Mazomanie 9/4-10			BL	5						1						5	7	18		3			

Weather of the week continued from page 766.

Precipitation remained hidden across most of the Nation. Scattered activity extended from the southern Atlantic coast into the southern Plains and from the west-central Plains into California. Meantime, the northeast quarter and northern areas from the Pacific coast into the Plains fared under clear skies. Moving eastward, a high pressure system carried autumn weather on Wednesday to the upper Ohio Valley and central Appalachians through New England. Freezing morning temperatures gripped the north-central mountains of Pennsylvania where Philipsburg and Bradford at 30 degrees vied for the low for the Nation. Scattered severe weather marred the afternoon weather scene when it erupted in the Midwest and South. With renewed strength, thunderstorms kicked up a tornado in Springfield, Missouri, that destroyed 5 homes, damaged 22 others, and left 5 persons injured. Elsewhere thunderstorms spotted the gulf and south Atlantic coast and middle Mississippi and western Ohio Valleys.

By sunrise Thursday, however, thunderstorms and heavy rains diminished in the Midwest. Signs of fall turned up in the Upper Mississippi Valley and northern Plains. Behind the cold front, morning minimums dipped into the 30's in parts of North Dakota and the first snowfall blanketed the Black Hills of South Dakota. Later on however, cold Canadian air gave rise to heavy thunderstorms, some frost, and a few damaging windstorms as it streamed through the central Plains toward the middle Mississippi Valley. Over the weekend, Florida and south-central Texas were the only areas to escape the unseasonably cold air that spread across the eastern two-thirds of the Nation. West of the Divide, warm air settled over the Pacific Northwest and fair skies and highs in the 80's and 90's favored California. Friday morning's mercury dipped into the 30's and few 20's through the northern Rockies and Upper Great Lakes. Some daily record lows--Omaha, Nebraska, 37 degrees, Sheridan, Wyoming, 37 degrees, and Kansas City, Missouri, 45 degrees. Centered over Nebraska, cold air pushed southward. Clouds moderated temperatures in the central Plains but clear skies let the mercury slip into the freezing range in North Dakota, Minnesota, Wisconsin, and Michigan. Moderate to heavy rains persisted along a cold front from New England through the middle Mississippi Valley and through Texas into New Mexico. On Saturday morning, clear skies continued over the northern tier of States. Result--more record lows in the Upper Mississippi Valley and Great Lakes region. Precipitation diminished considerably. Some rains, though, fell over much of Oklahoma into parts of Texas and from northeast Michigan through the Lower Great Lakes into northern New England. Morning temperatures on Sunday slipped even lower in the Northeast but remained above normal for mid-September over the West Coast States. Cold air chilled a number of spots to record low levels as it headed eastward, Detroit, Michigan--37 degrees, Toledo, Ohio--31 degrees, and Atlantic City, New Jersey--37 degrees. Then the warming trend pushed afternoon highs into the 60's in the Upper Great Lakes region and from the mid 70's to the mid 80's in Minnesota and the northern Plains. In the central United States, warm air flowing northward across cool air produced occasional rain and drizzle from southwest Texas into northern Missouri and western Illinois.

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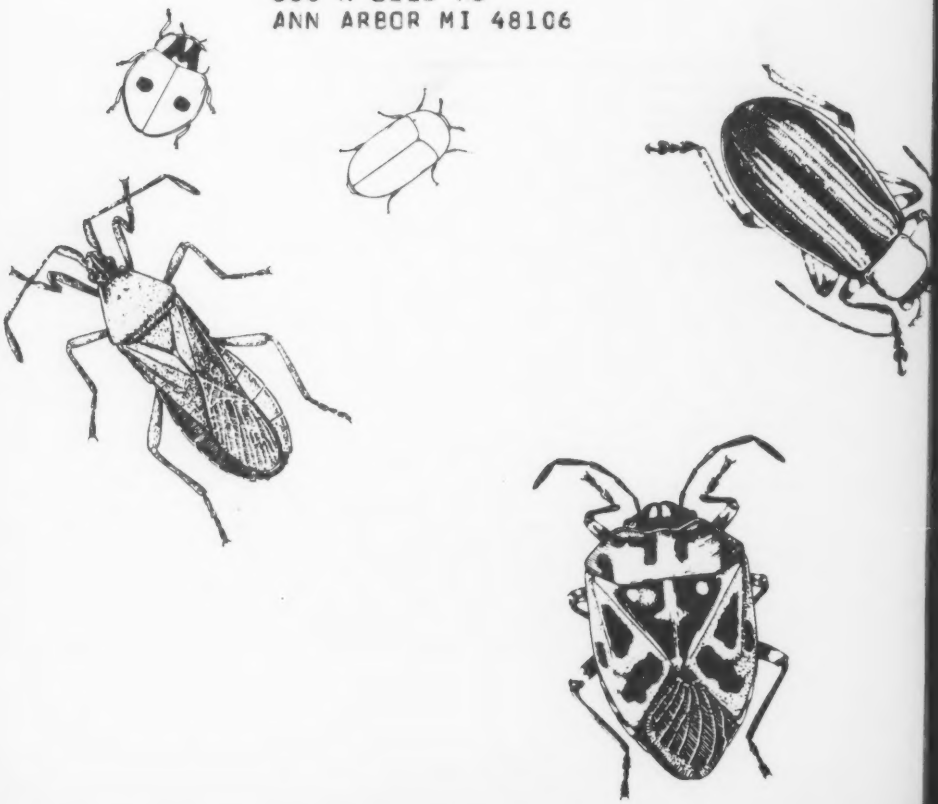
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